

**Amendments to the Specification:**

Please amend the specification as follows.

Please replace the first full paragraph on page 19 with the following replacement paragraph:

Fig. [[2]] 2a shows a three-dimensional structure of the microfluidic reaction support in plan view. Fig. 2b, 2c and 2d show the corresponding sectional illustrations; the microchannel structure 100 consists of the lower fluid feed structure 32 with microchannels 102 and the upper discharge channel structure 31 with the microchannels 103. In the central layer 40 in between are the connecting or reaction channels in the reaction areas 104, which are arranged nearly perpendicular to the feed and discharge. The cover layers 20 and 30 are optionally transparent or lightproof.

Please replace the third full paragraph on page 20 with the following replacement paragraph:

Fig. 7a shows in analogy to Fig. 6 a single two-dimensional flow structure in which the cross sections (shown in Figs. 7b and 7c) of the feed channels 2 (Fig. 7b) and the discharge channels 3 (Fig. 7c) have been altered at the level of the channels to specifically influence the flow. Here, the cross section of the reaction channels 4 having in each case at least one reaction area has likewise been altered and their size is not uniform. The structure is closed by the cover layers 10 and 20 which are arranged at an angle.

Please replace the last paragraph on page 20, which continues onto page 21, with the following replacement paragraph:

Fig. 8 shows the illustration of a three-dimensional flow structure in analogy to ~~Fig. 2 and 3~~ Figs. 2a-2d and 3a-3c with altered cross sections of the feed channels 102 and the discharge channels 103 to specifically influence the flow. The size of the reaction channels in the reaction areas 104 is unchanged here.